Notice of Allowability	Application No.	Applicant(s)	
	10/655,916	CURRAN ET AL.	
	Examiner	Art Unit	
	James Balls	1625	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to			
2. The allowed claim(s) is/are <u>1-3, and 28-34</u> .			
3.			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendr 8. ☑ Examiner's Stateme 9. ☑ Other ☐ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑	(PTO-413), te nent/Comment ent of Reasons for Allo	owance

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DETAILED ACTION

1. Claims 1-3 and 28-34 are pending.

EXAMINER'S AMENDMENT

The application has been amended as follows:

The abstract is amended to limit its length to less than a 150 words. The abstract may not exceed 150 words in length under 37 CFR §1.72(b) and MPEP 608.01(b). The following language will replace the language in the abstract.

The present invention relates to analogs of discodermolide and dictyostatin-1, intermediates for the synthesis of such analogs and methods of synthesis of such intermediates and analogs having the following structure:

wherein R¹, R², R³, R⁴ and R⁵ are defined herein.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

Applicants claim analogues of dictyostatin-1, which is a cyclic macrolactone and a well-known cancer agent. Dictyostatin-1 is disclosed in U.S. Patent No. 5,430,053

(Pettit et al.). Applicants' compounds have a ring structures very similar to dictyostatin-1 except for ring modifications at the R³ and R⁴ positions. Applicants found that the macralactone ring can be modified in these two locations without disrupting the compound's anti-cancer activity. No art exists wherein the macralactone ring has been expanded at the R³ and R⁴ position. Motivation to make these two specific modifications is lacking.

Querolle et al., Synthesis of Novel Macrocyclic Docetaxel Analogues. Influence of Their Macrocylic Ring Size on Tubulin Activity, J. MED. CHEM., 46:3623-3630 (2003) describes the synthesis of a series of novel macrocyclic taxoids. However, this reference is published after applicants' priority date. Also, this reference teaches away from applicants' findings. Querolle et al. made ring-size modifications to taxol and reported that those new taxoids showed decreased activity and that only the 22-ring taxoids exhibits significant anti-cancer activity whereas applicants' dictyostatin-1 ring-size modification maintained activity.

Any comments considered necessary by applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Balls whose telephone number is (571) 272-7997. The examiner can normally be reached on Mon - Fri 8:00am - 4:30pm EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on (571) 272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

R. James Balls Examiner Art Unit 1625 Cecelia Tsang
Supervisory Patent Examiner
Art Unit 1625